C. VAN DERZEE.

BALE-TIES.

No. 184,272. Patented Nov. 14, 1876.

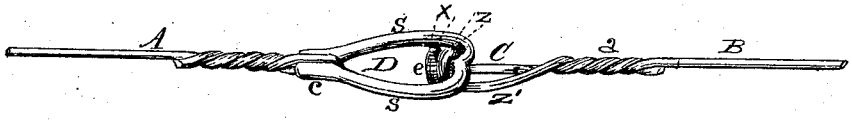

Fig. 1.

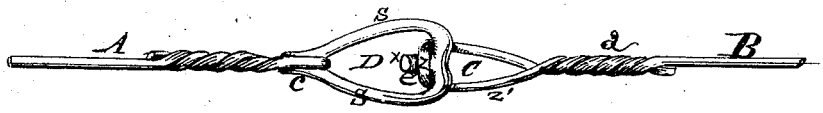

Fig. 2.

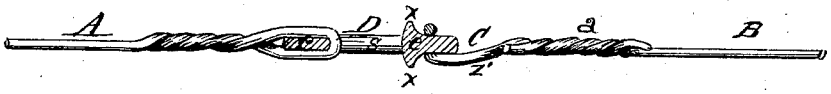

Fig. 3.

Fig. 4.

Witnesses. Wm F. Selkirk
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CORNELIUS VAN DERZEE, OF ALBANY, ASSIGNOR TO EDWIN S. LENOX, OF NEW YORK, N. Y.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **184,272**, dated November 14, 1876; application filed October 28, 1876.

To all whom it may concern:

Be it known that I, CORNELIUS VAN DERZEE, of the city and county of Albany, State of New York, have invented an Improved Bale-Tie; and I do hereby declare that the following is a description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a perspective view of the tie, illustrating the construction of its parts, and mode of attachment with the wire band with which it is employed. Fig. 2 is a plan view of the same. Fig. 3 is a sectional elevation of the same. Fig. 4 is a perspective view of the attaching-loop.

My invention relates to a bale-tie made from wire, with an attaching-piece connecting the ends of the same; and consists in the device hereinafter described, and in the combination, with the same, of a wire band and an attaching-loop.

The object of this invention is to secure the two opposite ends of a wire band in a reliable manner, with the attaching-loop guarded so as to prevent the same from being slipped from the connecting device.

To enable others skilled in the art to make and use my invention, I will proceed to describe it, in reference to the drawings and the letters of reference marked thereon, the same letters indicating like parts.

In the drawings, A represents one end of a wire band. B is the opposite end, provided with the upturned loop C, supported from the end of wire by the twisted neck *a*. D is the connecting-piece, made, preferably, of cast malleable iron, having the side strands *s s* both terminating back with the score-block *c*, and in front with the transverse cleat *e*, projected inward from the front of the loop formed by the side strands *s s*. The arms *x x* of the cleat *e* are each extended above the plane of the upper and lower sides of the side strands *s*, as shown in Fig. 3. The end A of the wire band is made to close around the score-block *c*, which is provided with a groove, and its free end is twisted with the main strand, as shown in Fig. 3, to hold the connecting device D firm with the end A. The upturned loop C is formed by turning the end B of the wire band back on itself and twisting the two strands together, leaving about an inch, more or less, of loop, the front end *z* of which is bent up at nearly right angles with the horizontal portion *z'*, and is made with a width slightly less than the width of the space between the side strands *s s* of the connecting device D, so as to be readily passed up through the same.

When it is desired to connect the two ends of the band, the angle *z* of the loop C is to be passed up through the space between the sides *s s* of the connecting-piece D, and then drawn forward over the arms *x x* of the cleat *e* to the front, where the sides *s s* meet, when the connection will be completed.

It may be readily seen that by this improved device the connecting-piece D may be rigidly held from the end A of the band, and that when the loop C is attached to the connecting-piece D by the cleat *e* the horizontal portion *z'* of the loop may draw against the lower side of the end of said connecting-piece, while the upper arm *x* of the cleat *e* operates as a guard to prevent the bight of the angle portion *z* of the loop slipping off.

It may also be readily seen that the heavier metal of the sides *s s* of the connecting-piece D operates effectually to guard the loop C, and that, when the strain of the compressed bale is exerted on the connected parts, the lower side of the connecting-piece, and also the lower side of the horizontal section *z'* of the loop, may lie flat on the bale, while the bight of the angle *z* will be held by the arm *x* from slipping off from its engaging-cleat.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The connecting-piece D, having side strands *s s* terminating with the score-block *c* at their rear, and with the cleat *e* projecting inward from the conjoined ends of the said side pieces in front, substantially as and for the purpose set forth.

2. The combination, with the connecting-piece D, constructed as described, of the loop C, having the angle *z* turned up from the horizontal portion *z'*, and adapted to engage with the cleat *e* of the said connecting-piece, substantially as and for the purpose set forth.

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